

Environmental Information System (EIS) Web Sites

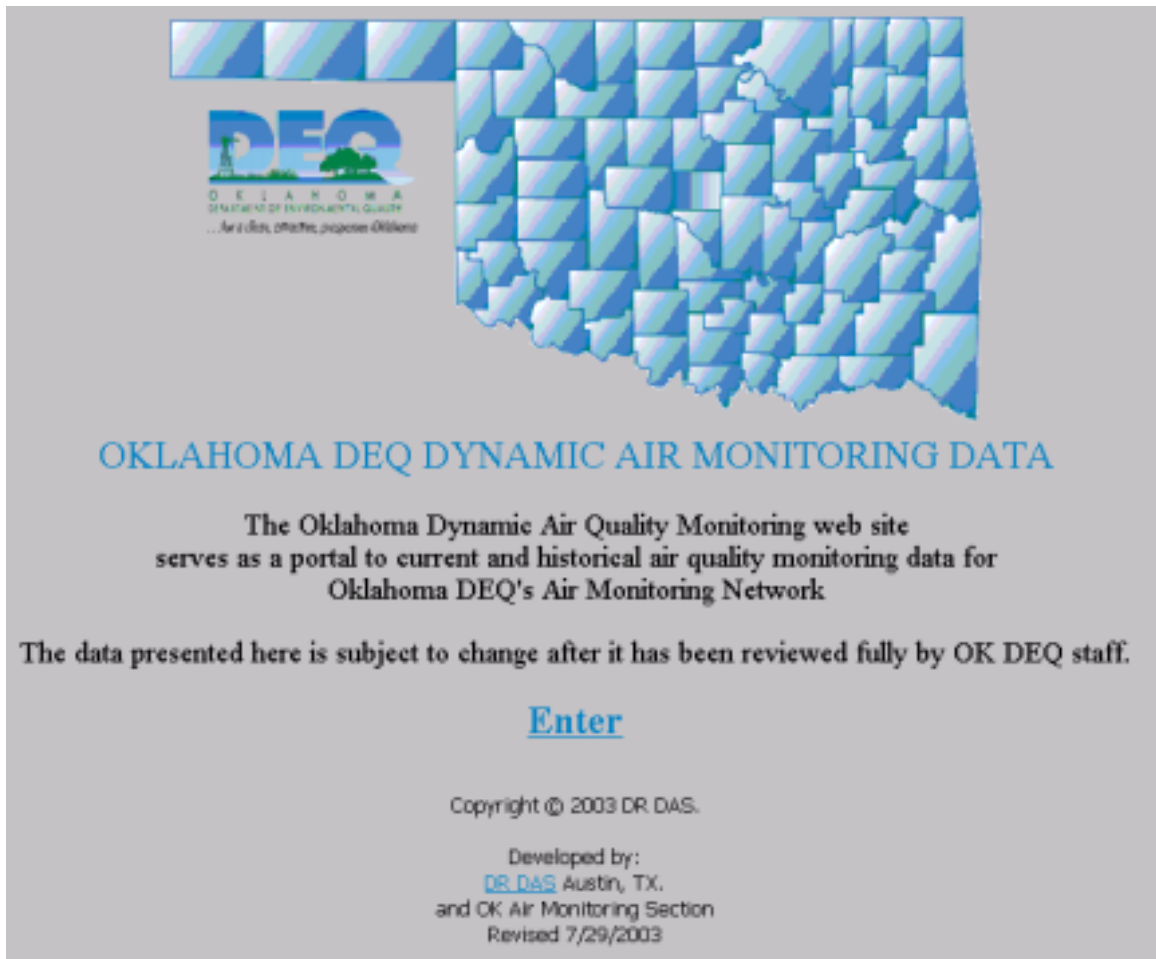
To support web based information access, air pollution agencies and industrial facilities have utilized the Environmental Information System (EIS) Web Site authored by DR DAS. EIS enhances existing public air quality web sites with access to dynamic data. Both Facilities and Agencies use EIS to publish monitoring network information on an Intranet.

EIS is a multi-tier ASP web application providing core database connectivity and data presentation capabilities. It is used in its entirety, or in part, to enhance near real-time data distribution capability. It also provides access to the HTML reports automatically prepared by Reporter and inserted in the SQL database for web viewing. Additional data hosted on a network Intranet site is used to improve monitoring system maintenance and data review activities. Pages supporting the drill down network status views of the **SiteView HMI** program can be included in sites. Calibration reports and complete alarm management are supported. Web sites are provided as source code for customer modification. The graphics tool used is Java. The graphs can be modified by users to obtain a wide variety of looks and feels.

A typical EIS implementation includes a home page with secure entry control. After entering the site a visitor is presented with a description and link to the types of reports available in the site. For a state air pollution agency these could include:

- Current Conditions – Displays current values and status for all parameters used in the AQI for various parts of the state. Like in the SiteView HMI program a user can click on any parameter and view a trend of the last 60 values. Invalid values are not plotted. A legend for the status codes is included.
- Graphs – Visitors can select any combination of parameters from the stations and specify a beginning and ending data. The data sets are then presented in line, 3-D line, bar or 3-D bar formats
- On Demand Reports – Visitors can select from among a set of data reports predefined by the agency staff. Examples could be Statewide Ozone, Tulsa Area Ozone, OKC Area Ozone etc. Visitors select the report of interest and the reporting period. The reports format can be a table or any of the graph types noted previously.
- View Reports – Visitors can examine reports that have been separately created by automated functions within the Reporter program. When Reporter makes an HTML type report the html page is stored in the SQL Server database. The web site allows users to browse through the reports by type and date and then to view any report. At Oklahoma these include a station data report listing each hour for each active network station. AQI reports are also created each hour. The last report of the day is retained in the database. Other hourly reports during the day overwrite themselves.

The AQNow access portal for real-time data in Oklahoma is shown below. It is followed by screen captures of some pages/reports described above.



The graphic features a stylized map of Oklahoma composed of blue and white geometric shapes. To the left of the map is the Oklahoma Department of Environmental Quality (DEQ) logo, which includes the text "DEQ", "OKLAHOMA", "DEPARTMENT OF ENVIRONMENTAL QUALITY", and the slogan "... Air is clean, effective, preserves Oklahoma".

OKLAHOMA DEQ DYNAMIC AIR MONITORING DATA

The Oklahoma Dynamic Air Quality Monitoring web site serves as a portal to current and historical air quality monitoring data for Oklahoma DEQ's Air Monitoring Network

The data presented here is subject to change after it has been reviewed fully by OK DEQ staff.


[Enter](#)

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and OK Air Monitoring Section
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Oklahoma Real-time Data Portal

Google Search Web Search Site Firefox Options

Oklahoma Department of Environmental Quality Air Monitoring Menu

[SUMMARY](#) [GRAPHS](#) [CREATE REPORTS](#) [VIEW REPORTS](#) 

[Logout](#)

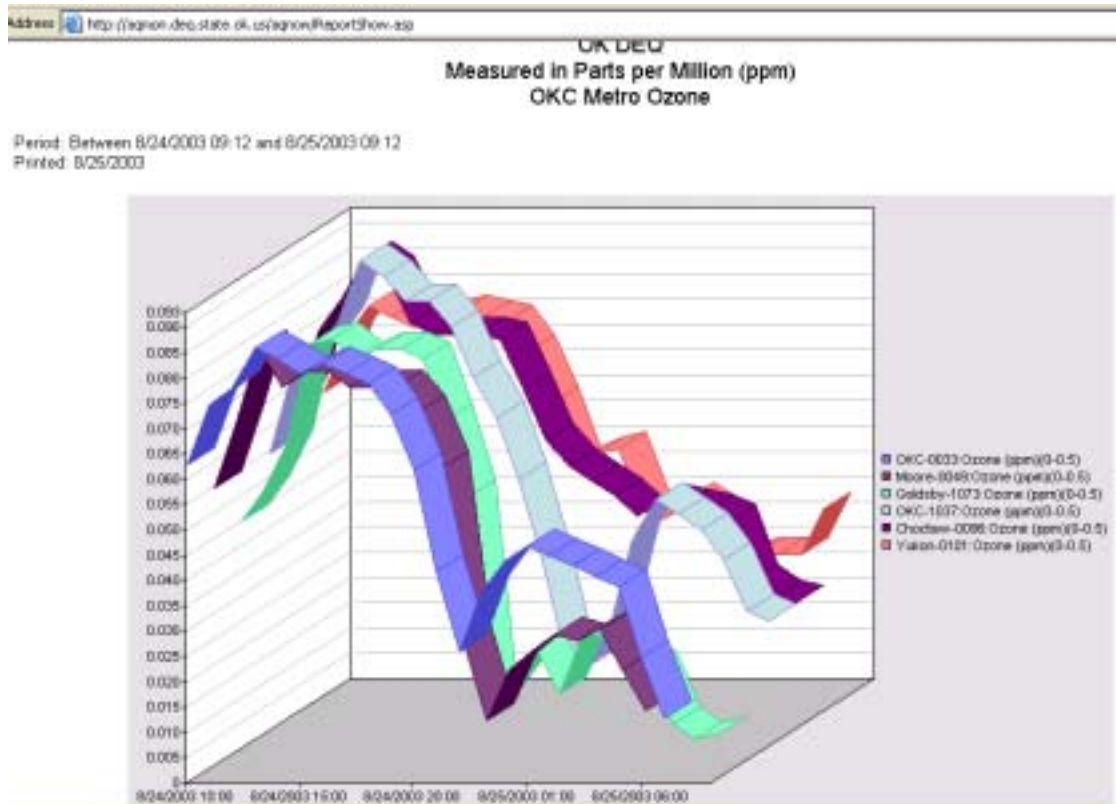
Select the desired Air Quality Operations menu item with the Icons above or with the Links at the bottom of this page.

- **SUMMARY** - Shows the current environmental parameters measured by the Oklahoma DEQ Air Quality monitoring network. Realtime dynamic values and trends are presented along with any active alarms which indicate levels considered significant.
- **GRAPHS** - Supports plotting of historical values for any system parameter in line, 3-D line, bar and 3-D bar formats.
- **Create Reports** - Any group of points with the same time basis of 1 hr can be reported for any period of record. The point groups are defined separately by the system administrator. In addition to a tabular report format this item supports plotting of the report points in line, 3-D line, bar and 3-D bar formats.
- **View Reports** - Routine reports, including Air Quality Index and reports for each site created hourly and are stored in the OK Air Quality Database for retrieval. Reports may be searched by date and type.

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Main Menu



Create Report: Oklahoma City Area Ozone – 3D Line plot



Pima County DEQ

Saved Reports

View	Category	Content	Date	Description
View	AQI Report	text/plain	9/25/03	All Regions - For Thursday, Sep 25, 2003
View	AQI Report	text/html	9/25/03	All Regions - For Thursday, Sep 25, 2003
View	AQI Report	text/plain	9/24/03	All Regions - For Wednesday, Sep 24, 2003
View	AQI Report	text/html	9/24/03	All Regions - For Wednesday, Sep 24, 2003
View	AQI Report	text/plain	9/23/03	All Regions - For Tuesday, Sep 23, 2003
View	AQI Report	text/html	9/23/03	All Regions - For Tuesday, Sep 23, 2003
View	AQI Report	text/plain	9/22/03	All Regions - For Monday, Sep 22, 2003
View	AQI Report	text/html	9/22/03	All Regions - For Monday, Sep 22, 2003
View	AQI Report	text/plain	9/21/03	All Regions - For Sunday, Sep 21, 2003
View	AQI Report	text/html	9/21/03	All Regions - For Sunday, Sep 21, 2003

Navigation: << < > >>

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Instructions

- To order records by a field, click the field heading. Clicking the heading again will order the records in reverse order.
- To view a report click the 'View' link.
- To navigate to additional pages (if applicable) click any of the navigation buttons: '<< First Page', '< Previous Page', '> Next Page', '>> Last Page'

View Reports: Browse and View Available Reports

Examples of reports that can be automatically created and made available through the view reports feature are illustrated below.

OKLAHOMA AIR QUALITY INDEX TULSA AREA For Monday Sep 8 2003 Through 11:00 PM CDT

Printed: 09/08/2003 23:16:33

STATION	CO	O3	PM2_5	SUMMARY
Glenpool-0174	NA	42	NA	The Air Quality Index for Monday Sep 8 2003 11:00PM isGOOD(green) due to O3_8Hr
Mannford-0144	NA	42	NA	The Air Quality Index for Monday Sep 8 2003 11:00PM isGOOD(green) due to O3_8Hr
Skiatook-0157	NA	43	NA	The Air Quality Index for Monday Sep 8 2003 11:00PM isGOOD(green) due to O3_8Hr
Tulsa-0178	NA	43	NA	The Air Quality Index for Monday Sep 8 2003 11:00PM isGOOD(green) due to O3_8Hr
Tulsa-0191	12	NA	NA	The Air Quality Index for Monday Sep 8 2003 11:00PM isGOOD(green) due to CO
Tulsa-1127	NA	43	61	The Air Quality Index for Monday Sep 8 2003 11:00PM isMODERATE(yellow) due to PM2.5
All Stations	12	43	61	The Air Quality Index for Monday Sep 8 2003 11:00PM isMODERATE(yellow) due to PM2.5 at Tulsa-1127

Air Quality Index Category Index Values, Descriptors, and Colors.

Index Values	Descriptor	Color
0 - 50	Good	Green

Tulsa OK Area AQI Report Extracted from SQL database and viewed on the Web

**PIMA County AQI Report
For Thursday, Sep 25, 2003 Through 4:00:00 AM MST**

Printed: 09/25/2003 04:21:49

STATION	CO	O3	PM10	PM2.5	SUMMARY
Downtown	12	10	NA	NA	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to CO
Childrens Park	6	16	NA	NA	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to O3_8HR
Alvernon+22nd	15	NA	NA	NA	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to CO
Green Valley	NA	21	13	36	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to PM2.5
Craycroft+22nd	5	11	NA	NA	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to O3_8HR
Saguaro Park	NA	23	NA	NA	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to O3_8HR
Fairgrounds	NA	19	NA	NA	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to O3_8HR
Tangerine	NA	19	NA	NA	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to O3_8HR
Geronimo	NA	NA	40	39	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to PM10
Rose Elementary	NA	12	NA	54	The Air Quality Levels for Thursday Sep 25 2003 are MODERATE(yellow) due to PM2.5
Coachline	NA	15	NA	45	The Air Quality Levels for Thursday Sep 25 2003 are GOOD(green) due to PM2.5
All Stations	15	23	40	54	The Air Quality Levels for Thursday Sep 25 2003 are MODERATE(yellow) due to PM2.5 at Rose Elementary

Pima County AQI Report Extracted from SQL database and viewed on the Web

EXCESS EMISSIONS REPORT
ALCOA PT COMFORT
CONTINUOUS EMISSION MONITORING SYSTEM
UNIT 6 NOX EXCESS

Period: Between 01/08/03 00:00 and 01/09/03 00:00
Printed: 03/09/2003 17:23:15

Periods Summary
Performance Standards > 0 mph

Start Date	Start Time	End Date	End Time	Time in Excess (Hours)	Avg Value	Reason / Action
01/08	00:00	01/09	00:00	24:00	4.52	None Found
Summary:				24:00		
Total Reporting Periods: 24						
Total Missing Periods: 0						
Total Excess Periods: 24(100.00%)						
Summary of Reasons and Actions:						
Number	Percent	Reason				
24	100.00%	None				
0	0.00%	Control Equipment Malfunction				
0	0.00%	Other				
0	0.00%	Unknown				
Number	Percent	Action				
24	100.00%	None				
0	0.00%	Repaired				
0	0.00%	Deferred				
0	0.00%	Other				

Excess Emissions Report from Facility Intranet Site

Calibration Report - Microsoft Internet Explorer

BC HYDRO
Burrard Generating Station

UNIT 1 CALS - For periods between 03/15/99 and 03/16/99 (All Monitors)

STATION: Unit 1,2,3 S MIN
MONITOR: H_Opac (%)

START DATE/TIME	END DATE/TIME	TYPE	EXPECTED VALUE	ACTUAL VALUE	DRIFT	DEVIATION	VALIDITY
3/15/99 12:00:06 AM	3/15/99 12:00:06 AM	Span1	0.000	1.000	1.000	1.000	Pass
3/15/99 12:00:06 AM	3/15/99 12:00:06 AM	Zero	0.000	1.000	1.000	1.000	Pass
3/16/99 12:00:06 AM	3/16/99 12:00:06 AM	Span1	54.000	51.000	-3.000	-3.000	Fail
3/16/99 12:00:06 AM	3/16/99 12:00:06 AM	Zero	0.000	1.000	1.000	1.000	Pass

STATION: Unit 1,2,3 S MIN
MONITOR: S_Opac (%)

START DATE/TIME	END DATE/TIME	TYPE	EXPECTED VALUE	ACTUAL VALUE	DRIFT	DEVIATION	VALIDITY
3/15/99 12:00:06 AM	3/15/99 12:00:06 AM	Span1	0.000	1.000	1.000	1.000	Pass
3/15/99 12:00:06 AM	3/15/99 12:00:06 AM	Zero	0.000	1.000	1.000	1.000	Pass
3/16/99 12:00:06 AM	3/16/99 12:00:06 AM	Span1	50.000	1.000	-49.000	-49.000	Fail
3/16/99 12:00:06 AM	3/16/99 12:00:06 AM	Zero	0.000	1.000	1.000	1.000	Pass

Daily Calibration Report from Facility Intranet Site

Data Listing Report - Microsoft Internet Explorer

DATA LISTING REPORT
BC HYDRO
Burrard Generating Station

OZONE VS NOX

Period: Between 01/02/00 00:00 and 01/17/00 00:00
Printed: 7/17/2001

DATE	O3	S	NOX	S
01/02/00 01:00	0.000	I	0.163	I
01/02/00 02:00	0.000	I	0.131	-
01/02/00 03:00	0.000	I	0.097	-
01/02/00 04:00	0.000	I	0.084	-
01/02/00 05:00	0.000	I	0.082	-
01/02/00 06:00	0.000	I	0.099	-
01/02/00 07:00	0.000	I	0.081	-
01/02/00 08:00	0.000	I	0.115	-
01/02/00 09:00	0.000	I	0.097	-
01/02/00 10:00	0.000	I	0.047	-
01/02/00 11:00	0.000	I	0.051	-

Data Listing from Facility Intranet Site